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8 March 1965



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Subject: Modification to [] Proposal No. 64034-B Continuation of
the Modulated Light Film Viewer Contract
[] Proposal No. 915031-a

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Continued:

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[] is pleased to submit herewith the
enclosed modification to the subject proposal in accordance with
discussions held with your technical staff on February 26, 1965.

The modifications as described in the attached letter proposal
dated March 3, 1965 are applicable to Task I of Proposal No. 64034-B.
The delivery schedule as quoted in the original proposal is un-
affected by this modification; however, the price for the incorpora-
tion of these modifications is changed as follows:

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Proposal No. 64034-B
This Proposal
Total

Enclosed are three copies of our Price Analysis Summary
No. 915031-a dated 8 March 1965 in substantiation of the above
figures.

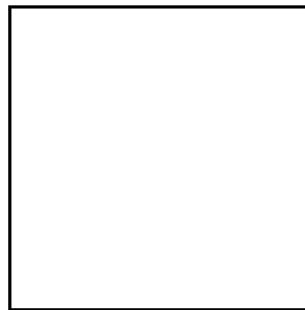
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The additional amount of [] is broken down by item as
follows:

Item No.

1
2
3
4



Total

RCA Proposal No. 915031A

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8 March 1965

The above figures apply to the fabrication and delivery of the first wafer; the price for delivery of a second wafer is increased by an amount of [redacted] to a new price of [redacted] (Refer to [redacted] letter 4 January 1965, Task I, Par. 3).

Except as amended herein, the terms and conditions of Proposal No. 6403A-B remain unchanged, and the proposal will remain firm for a period of 60 days from the date of this letter. Should additional information be required, please contact the undersigned at [redacted]

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Very truly yours,

JCV/[redacted]

[redacted]
Marketing Representative

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Enclosures:

- a) Modification to Proposal for Development of a Modulated Light Film Viewing Table and Further Study of Modulated Light Film Viewing System
[redacted] Proposal No. 915031-A dated March 5, 1965 Six (6) copies
- b) [redacted] Price Analysis Summary No. 915031-A Three (3) copies

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MODIFICATION TO PROPOSAL FOR

DEVELOPMENT OF A MODULATED - LIGHT FILM

VIEWING TABLE AND FURTHER STUDY OF MODULATED - LIGHT

FILM VIEWING SYSTEMS

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PROPOSAL NO. 64034B)

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Proposal No. 915031-A

March 5, 1965

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The following information is submitted by the [redacted]

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[redacted] is an addendum to the Proposal for Development of a Modulated-light Film Viewing Table [redacted] proposal No. 64034-B, December 23, 1964).

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Items 1-3 refer to the microscope carriage. Item 4 deals with a variable speed motorized drive for the film reels. Costs have been estimated for each item separately for the first unit, and for one additional unit.

1. Smooth and relatively frictionless operation of both the transverse and lateral carriages will be accomplished by using ground steel shafts and a three roller suspension system. The rollers will be small nylon V-belt pulleys, which provide only point contacts with the 1/2 inch diameter shafts. The two lateral carriages which support the transverse shafts each ride on one shaft. The transverse carriage which supports the microscope, will ride on two parallel shafts spaced about 2 inches apart. The carriages will be supported by two rollers above and one below each shaft. The single roller below the rail will be mounted on an eccentric axle so that rotation of this axle will adjust the suspension system to remove excessive clearance without inducing appreciable additional friction.

2. The three roller suspension system described above will permit the shafts to be bent to suit the curvature of the kinescope tube face. The distance from the tube face to the objective lens of the microscope can thus be maintained constant.

3. Counterbalancing of the microscope and carriage on a table which may be operated at various tilt and rotation angles is not considered feasible without excessive complication. Hence a magnetic brake system is proposed. The brake mechanism consists of an electromagnetic shoe mounted in nylon guides. Actuation of the brake energizes the shoe causing it to clamp firmly to the carriage rail and prevent inadvertent movement of the carriages. The actuation is by means of a "dead man switch" placed

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in the carriage traversing handle. When the carriages are moved to the desired position, release of the handle energizes the brake shoes and locks both carriages. Grasping the handle de-energizes these shoes and springs release them from the rails. Individual disable switches are provided so that the brake can be locked in the "off" position for either transverse or lateral scanning of the film. It is also possible to lock both brakes in the "off" position. In addition to the switch on the handle, two switches will be located on the microscope 360° support arm periphery. Actuation of any one of the three low pressure switches will unlock the brakes.

4. A variable speed motor drive will be provided to either advance or rewind the film. Power for film traverse will be supplied by two motors--one on each film reel. These motors will transmit power to the reel through an over-running clutch which drives in one direction only and has a free wheeling action in the other direction. Friction drag brakes will be provided on each film roll shaft to prevent overrunning of the supply reel, and to maintain tension on the film. The film tension will be preset at 3 lbs. average, but may be adjusted with a screw dirver to compensate for wear. The "forward" or "rewind" direction will be selected by a toggle switch convenient to the operator. Variable speed of these motors will be accomplished by a foot control rheostat. The crank handles shown in Figure 2 will be replaced by hand wheels to eliminate the hazzard to the operator from the spinning crank.

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